

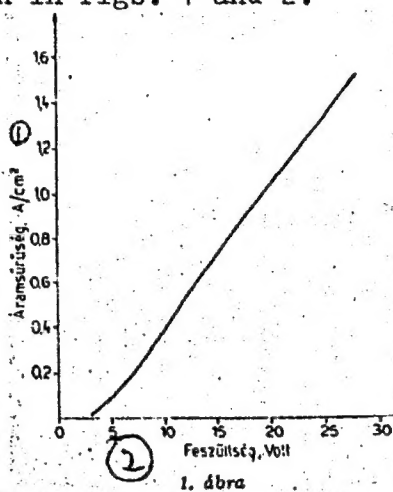
Experiments for the production ...

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D234/D305

while the layer on aluminum and zinc cathodes was of a considerably better quality. The current density increase was proportional to the increase in cell voltage as shown in Figs. 1 and 2.

Fig. 1

Legend: (1) Current density, amp/sq.cm; (2) tension, volt.



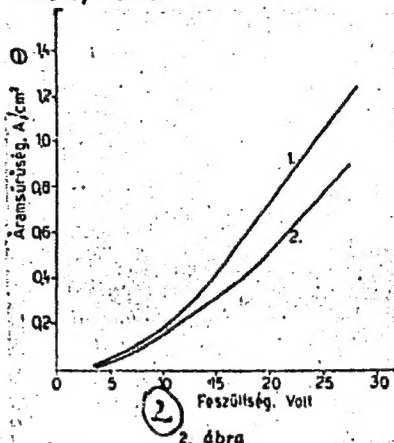
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Experiments for the production ...

Fig. 2

Legend: (1) Current density, amp/sq.cm; (2) tension, volt.

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Since the  $\text{KHSO}_4$  solution had a better conductivity than the  $\text{NH}_4\text{HSO}_4$  solution, its current density was somewhat higher, although the voltage used was the same in both cases. Graph 1 in Fig. 2

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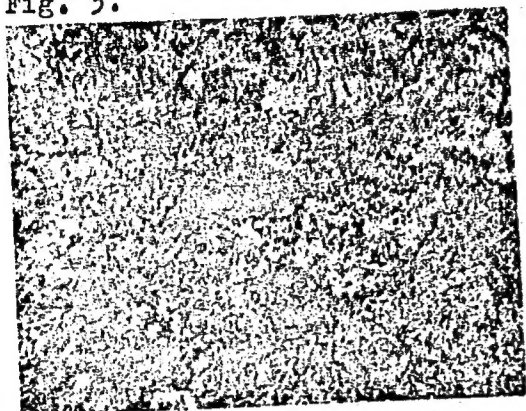
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shows that the steep rise in voltage, determined at the start of electrolysis, became moderate due to the slow polarization of the platinum anode. After 30 minutes of electrolysis, the balance in the anode field was established, as shown by graph 2 in Fig. 2. The gray titanium layer obtained from  $\text{KHSO}_4$  was somewhat uneven and its examination under the microscope revealed dark brown inclusions, presumably from titanium oxide, as shown in Fig. 3. In some places even cracks were observed, the adhesion of the layer was insufficient and, upon rubbing, it peeled in the form of brittle scales. The titanium layer obtained from  $\text{NH}_4\text{HSO}_4$  had a light gray color, good adhesive properties and a definitely metallic appearance. Fig. 4 shows the fine structure of titanium produced with 20 amp/sq.dm. No impurities could be detected with a microscope. In comparison the titanium structure obtained with 40 amp/sq.dm was rather rough and uneven, as shown in Fig. 5.

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Experiments for the production ...

Fig. 3.

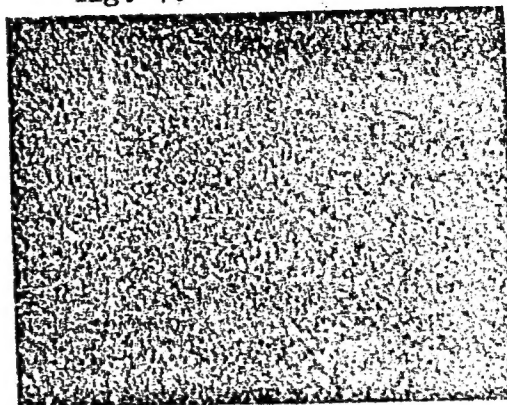


3. abra

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Fig. 4.

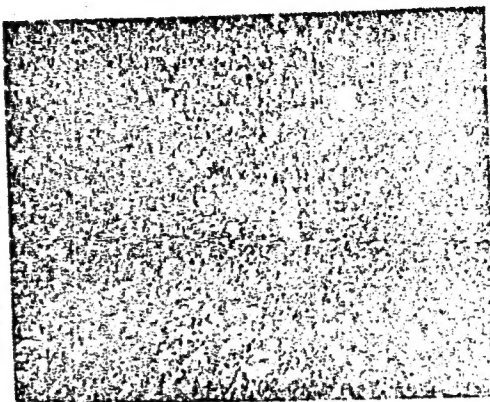


4. abra

Experiments for the production ...

The layer obtained by 120-180 minutes of electroplating was 1-2 $\mu$  thick which indicates a rather unfavorable power consumption efficiency. The layer proved to be resistant to dilute and concentrated acids, but treatment with hydrochloric acid for a longer period of time resulted in corrosion, which indicated that the layer was porous. These experiments revealed that titanium plating from salt bath with a low melting point is possible. The problem of producing a thick non-porous titanium layer with good covering properties, yet without oxide inclusions is, however, not yet solved. There are 5 figures and 21 non-Soviet-bloc references. The re-  
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5. abra

Fig. 5

Experiments for the production ...

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D234/D305

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Anonym: Light Metals, 21, 243, 1958; J.B. Cotton: Chem. a. Ind.  
(London), 1958, 492; M.E. Sibert and M.A. Steinberg: Mat. in De-  
sign. Eng. 46, 132, 1957; W. Schmidt: US Pat. 2 745 802, 1956.

ASSOCIATION: Fémipari kutató intézet (Metal Industry Research  
Institute).

Card 10/10

35815  
H/011/62/000/004/001/002  
D249/D301

8.1410

AUTHORS: Sinay, Gábor, and Csokán, Pál, Doctor

TITLE: Strength properties of aluminum sheets with a cover  
of hard oxide layer

PERIODICAL: Gép, no. 4, 1962, 126 - 130

TEXT: The physical and mechanical properties of extra hard oxide coating were studied which was prepared by a technique developed in the author's laboratory. The effect of the coating on the substrate metal was investigated. 25 mm wide bending and tensile strength test pieces were prepared from sheets of commercial smelted aluminum and AlMgSi. The specimens were anodically oxidized in a bath of diluted  $H_2SO_4$  at  $0^\circ C$  applying a potential of 50 V across the electrolytic cell. The bath was vigorously agitated. Part of the samples was anodized for 30 minutes, another part for 60 minutes. Hardness was determined on the polished cross-section of the samples by Hanemann's method. 100 G load was applied in these tests. Tensile strength and yield point were measured on a hydraulic testing machine-  
X

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Strength properties of aluminum ...

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ne. The elongation was determined afterwards. The same hydraulic test machine was used for the bending tests. An Amsler high-frequency pulsator was used to determine the homogeneity of oxide coated AlMgSi specimens. Based on average values the authors' process of anodic oxidation gives an oxide coating of 120 - 220  $\mu$  thickness with a Vickers hardness of 450 - 520 kg/mm<sup>2</sup>, in 60 mins. The influence of the time of anodic treatment is due to the inhomogeneity of the oxide film. Comparing the measured strength properties of the untreated anodically oxidized sheets the following conclusions can be reached: 1) A coat of hard oxide reduces the tensile strength. The thinner and softer the sheets, the larger was the reduction. The largest decrease of tensile strength measured was 25 %. 2) In the case of soft sheets the yield point is not reduced. The decrease in case of hard sheets can reach 15 - 30 %. 3) The elongation of anodized thin and soft sheets can decrease by 15 - 30 %. The reduction will be less in case of hard and thick sheets. It will be nil above a certain thickness. 4) The effect of the hard oxide coat on the strength properties of the substrate metal increases with the thickness of the layer. 5) The load necessary to obtain the bending yield point increases with the thickness of the

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Strength properties of aluminum ...

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D249/D301

oxide film in case of thin and soft sheets. According to these experimental findings, in the case of drawing strains the hard oxide coating decreases the strength and deformation characteristics, while in the case of bending strain it has a favorable effect. Finally, considerations are given to the application of anodic treatment in the machine industry. There are 6 figures, 3 tables and 22 references: 11 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: R. V. Vanden Berg, Mat. and Meth., 42, 1956, July, 90; J.M. Kape, Metal Ind., 91, 1957, 8, 9, 10 pp.; S. Warwick and R. Pinner, The treatment and finishing of Al and its alloys, Teddington, 1959; Anon. Mechanical World and Engine Record, 1960, no. 6.

ASSOCIATION: Fémipari kutató intézet (Research Institute of the Metal Industry)

Card 3/3

CSOKAN, Pal; SIMON, Ferenc

Experiments for galvanic preparation of corrosion-resisting titanium coating. Magy kem lap 15 no.10:442-445 '62.

1. Femipari Kutato Intezet.

SINAY, Gabor.; CSOKAN, Pal, Dr.

Strength properties of aluminum sheets covered by a hard oxyde layer. !  
Gep. 14 no.4:126-130 Ap '62.

1. Fempari Kutato Intezet.

CSOKAN, Pal, dr.; MAGYARY, Ferec

Classification of lubricants used in aluminum foil  
rolling. Koh lap 96 no.5:199-205 Ny '63.

1. Femipari Kutato Intezet, Budapest.

CSOKAN, Pal

Selective corrosion of carbon steel. Koh lap 9 no. 5:  
Supplement: Ontode 5 no. 5: 114-116 My '54.

CSOKAN, Pal, dr.; MAGYARY, Ferenc

Classification of lubricants used in aluminum foil rolling.  
Koh lap 96 no. 6:270-276 Je '63.

1. Research Institute of the Metal Industry, Budapest.

Csokas, J.

(JANOS)

HUNG.

H:

56. Method for the examination of radioactive cores  
by a Geiger-Müller counter J. Csokas (Hungary)

The investigations furnish information on the  
radioactivity of the rocks of the Pannonian Basin.

The investigations of the radioactivity of the rocks of the Pannonian Basin are so important that beside  $\gamma$ -radiation, the  $\beta$ -radiation must be distinguished even in case of rocks with low radioactivity. In order to examine the samples directly on the mica window of a Geiger-Müller counter, the quantity of radioactive substance has been determined from the number of insets in terms of potassium with the aid of a calibration curve. The equipment has been calibrated with a mixture of gypsum and KCl in which the quantity of KCl was first 0.5%, 1%, and then ranged in increments of 1% up to 10%. The radioactivity of Pannonian rocks is as follows: for limestones  $12 \cdot 10^{-7} \text{ K}^{40} \text{ g/g}$ ; for sandstones  $14 \cdot 10^{-7} \text{ K}^{40}$ ; for marls  $40 \cdot 10^{-7} \text{ K}^{40}$ . The radioactivity of various Pannonian rocks from Transdanubia differs considerably, consequently they can be distinguished from one another on this basis.

pmf

CSOKAS, Janos, egyetemi tanar

Geophysics at the Technical University of Heavy Industry. Borsod  
szemle 7 no.1:37-40 '63.

1. Tudományos Ismeretterjesztő Társulat Borsod megyei szervezetének  
elnöke.



CSOKAS, J.

HUNG

59. Prospecting for bauxite by gravimetric measurements - J. Csokas. (Bányászati Lapok - Vol. 9 (87), 1951, No. 5, pp. 268-272, 5 figs.)

In Hungary bauxite can often be found in the depressions of underlying rocks. The comparison of isogal curves plotted from measurements with the geological profile obtained from data on borings as well as with the hypsometric curves of the underlying main dolomite shows that the relief of the underlying rocks can be marked out by gravimetric measurements executed with station intervals of

50-100 m. A similar result was obtained by comparing a geological profile with the corresponding gravitational profile. The gravitational profile has been determined by calculation along the examined geological profile by Hubbert's method. The accuracy of the measurements was  $\pm 0.1$  milligal. It could be ascertained that under similar geological conditions the gravimetric method can satisfactorily be employed in prospecting for bauxite. On the basis of the obtained gravitational image the depression of the base rocks and thus the probable bauxite deposits can be designated.

20

CSOKAS, Janos, dr., okl. geofizikus, a muszaki tudomanyok kandidatusa,  
tanszekvezeto egyetemi tanar

Automatic gas detector. Bany lap 94 no.11:779-784 N '61.

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CSOKAS, Janos, dr., tanszekvezeto egyetemi tanar

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1. President, Borsod County organization, Society for Dissemination  
of Scientific Knowledge.

HUNGARY

CSOKAY, Imre

Candidate for Agricultural Sciences

Budapest, Hidrologiai Kozlony, No 5, Oct 62, pp 390-393.

"Simple Irrigation Equipments with Plastic Pipes."

Co-author:

OROSZLANY, Istvan, PhD, Candidate for Agricultural Sciences.

CSOKAY, Imre; OROSZLANY, Istvan, dr., a mezogazdasagi tudomanyok  
kandidatusa

Simple irrigation installations with plastic pipes. Hidrologiai  
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1. "Hidrologiai Kozlony" szerkeszto bizottsagi tagja (for  
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CSOKE, Antal

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CSOKE, Antal; PETER, Istvan; KERTESZ, Karoly

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1. Central Research Institute of Physics, Hungarian Academy of  
Sciences, Budapest.

BIRO, L.,dr.,; CSOKCHAY, L.,dr.,; HEUNWIRTH, M.,dr.,; CSOKA, I.,dr.

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I. part. Immunization studies. Borgyogy. vener. szemle 10 no.1:  
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1. A debreceni Orvostudományegyetem Borklinikájának (igazgató:  
Szodoray Lajos dr. egyetemi tanár, az orvostudományok doktora)  
és Mikrobiológiai Intézetének (igazgató: Tóth Endre dr.  
egyetemi tanár, az orvostudományok doktora) közleménye.

(MICROCOCCUS PYOGENES

anatoxin vacc., prep. & immun. eff. in man & rabbits  
(Hun))

(VACCINES AND VACCINATION

staph. anatoxin vacc., prep. & immun. eff. in man &  
rabbits (Hun))



CSOKONAY, LASZLO

2 ✓ A culture medium for the separation of gram-positive and gram-negative bacteria. Endre Jency, Tabor Zsuzsi, and Laszlo Csokonay (Univ. Debrecen, Hung.). *Zentr. Bakteriol. Parasitenk.*, Abt. I, Orig. 165, 61-8 (1956). *Zentr. Bakteriol. Parasitenk.*, Abt. I, Orig. 165, 61-8 (1956).—Three isomeric dimethyl(phenyl)anthracenes (cf. *ibid.* 163, 281 (1955)) were prepd.; 2,8-dimethyl-1,5-phenanthroline; 2,6-dimethyl-1,8-phenanthroline; and 2,9-dimethyl-1,10-phenanthroline. A concn. of 0.1% of any of these in culture media will inhibit gram-pos. bacteria.

John T. Myers

BAN, Andras, dr.; SIRO, A.Bela, dr.; DEMENY, Peter, dr.; KACSKO, Janos, dr.  
CSOKONAI, László, dr.

Effect of large doses of pyrexal, a bacterial pyrogen, on the  
leukocytes. *Magy.belorv.arch.* 13 no.5:131-135 0 '60.

1. A Debreceni Orvostudományi Egyetem I. Belklinikájának (Igazgató:  
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Ozdi Varosi Korhaz Laboratorium (Foervos: Csokonay Laszlo dr.) kozlemenye.

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CSOKONAY, Laszlo, dr.; KIRCHKNOPF, Marton, dr.

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(URINARY TRACT INFECTIONS diag)

KIRCHKNOPF, Marton, dr.; CSOKONAY, Laszlo, dr.; KONCZ, Gabor, dr.

Practical significance of chronic bacteria. Orv. hetil. 103 no.40:  
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The importance of the Griess-Ilosvay test in the diagnosis  
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(URINE) (NITRITES)

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CSOKNAY, Iaszlo, dr.

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(osztalyvezeto: Kirchknopf, Marton, dr.) es Laboratorium  
(osztalyvezeto: Csokonay, Laszlo, dr.).

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Effect of thoracic surgery on the acid-base equilibrium.  
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CSOLNOKY, L., AND OTHERS

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SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

CSOLTO, Laszlo

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CSOLTO, Laszlo

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FOLDVARI, Laszlo; CSOLTO, Laszlo

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1. Secretary, Central Council of Transportation, Budapest.

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CSOLTO, Laszlo

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CSOLTO, Laszle (Budapest)

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CSOLTO, Laszlo

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1. Secretary, Central Council of Transportation, Budapest.

L 13408-66

ACC NR: AP6007053

SOURCE CODE: HU/0018/65/017/003/0332/0334

AUTHOR: Kardos, Kalman--Kardosh, K.; Csokonay, Laszlo--Chokonai, L. 20 B

ORG: Miskolc City Council, Tuberculosis Sanitarium, 'B' Medical Ward and Laboratory (Miskolc Varos Tanacs, Tbc. Gyogyintezet, 'B' Belosztaly es Laboratorium)

TITLE: Modified method for the determination of INH present in the urine

SOURCE: Kiserletes orvostudomany, v. 17, no. 3, 1965, 332-334

TOPIC TAGS: respiratory drug, animal physiology, quantitative analysis, biochemistry, hydrarine derivative

ABSTRACT:

The Wollenberg method for the determination of INH present in the urine has been modified. The results indicate that by reading the color reaction through two filters the interference by high blanks can be eliminated even in cases of highly concentrated urine samples. Orig. art. has: 1 table. [JPRS]

SUB CODE: 06 / SUBM DATE: 08Jul64 / ORIG REF: 001 / OTH REF: 007

Card 1/1 HU

CSOMA, J.

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1. Scientific Research Institute of Water Resources  
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CSOMA, Vilmos

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1. National Pedagogic Institute, Budapest.

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1. Physikalisches Institut der Universität für Technische Wissen-  
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CSOMA, Z. (Budapest XI. Budafoki ut 8)

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1. Physikalisches Institut der Technischen Universität, Budapest.  
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CSOMA, Zs. (Budapest)

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1. Physikalisches Institut der Universitat fur Technische Wissenschaften,  
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53-54 1 Mar 55.

(AMINOPYRINE,  
amide content)

CSOMOR, D.; ~~KISS, L.~~

SCIENCE

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CSOMOR, Dezso; KISS, Zoltan

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CSOMOR, Gabor, dr.

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(NITROGEN MUSTARDS ther) (MANNITOL rel opds)



MEZEI, Tibor; CSOMOR, Janos

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(HERNIA, DIAPHRAGMATIC  
subcostosternal, diag. & surg.)

CSOMOR, Mihaly

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(LABOR compl.)

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(GENITALIA FEMALE neopl)

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Universität, Budapest.

(BLOOD COAGULATION FACTORS) (PREGNANCY) (PUERPERIUM)  
(PREGNANCY TOXEMIAS)



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(HYSTERECTOMY)

(CERVIX NEOPLASMS)

HUNGARY

PAAL, Margit, Dr, CSOMOR, Sandor, Dr, DOMOTORI, Jenő, Dr, SZINNYAI, Miklos, Dr; Medical University of Budapest, I. Gynecological Clinic (Budapesti Orvostudományi Egyetem, I. sz. Női Klinika) (Director: HORN, Bela, Dr, professor).

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Budapest, Magyar Radiologia, Vol XV, No 2, Apr 63, pages 93-98.

Abstract: [Authors' English summary modified] Determinations of SGOT activity have been carried out on women suffering from carcinoma before treatment, after surgery and on cases in an incurable stage as well as on patients with benign tumors. The majority of untreated cancer cases showed a high SGOT activity. No straight correlation between the extent of the disease and the degree of enzyme activity could be found although the highest values were found among the incurable, extremely progressive cases. No characteristic increase of enzyme activity was observed in the course of radiation treatment. 9 Western, 2 Eastern European references.

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(igazgató: Horn Béla dr. egyetemi tanár) közleménye.

(PREGNANCY COMPL., INFECTIOUS)

(TUBERCULOSIS, PULMONARY)

(STATISTICS) (BIRTH CONTROL)

(COMMUNICABLE DISEASE CONTROL)

HUNGARY

CSOZOR, Sándor, Dr. DOMOTÓRI, János, Dr. TREIT, Sándor, Dr; Medical University of Budapest, I. Women Clinic (Budapesti Orvostudományi Egyetem, I. Női Klinika).

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unchanged that of thrombocytes, however, decreased. The blood coagulation factors during treatment with the drug were not changed. The results of the study are summarized in Table I.

66-3

1. [illegible]

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NO REF SOV: 000

OTHER: 013

JPRS

Card

2/2

TOTH, F.; CSOMOR, S.; MESZAROS, J.

Mesonephrogenic adenocarcinoma and adenoma of the uterine cervix.  
Acta morph. Acad. sci. Hung. 13 no.1:83-90 '64

1. I. Cynaekologische Klinik (Direktor: Prof. Dr. B. Horn)  
der Medizinischen Universität, Budapest.



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ACC NR: AP6006637

SOURCE CODE: HU/0021/65/000/002/0103/0106

AUTHOR: Konya, Zoltan--Kon'ya, Z. (Doctor); Csomor, Sandor--Chover, Sh. (Doctor)  
Szeke, Janos--Seker, Ya. (Doctor)

ORG: I. Gynecological Clinic, Medical University of Budapest (Budapesti  
Orvostudományi Egyetem, I. sz. Noi Klinika)

TITLE: Changes in the serum protein fraction of women with carcinoma of the  
reproductive organs during radiation treatment

SOURCE: Magyar radiologia, no. 2, 1965, 103-106

TOPIC TAGS: carcinoma, biochemistry, protein, radiology, radiotherapy, blood,  
radiation biologic effect, pathology

ABSTRACT: The serum protein fractions  
were determined during the irradiation treatment of 33 women with cancer.  
The paper electrophoretic method revealed a decrease in the albumin value  
and in the A/G ratio, and an increase in the globulin value, especially  
that of the  $\alpha_1$ ,  $\alpha_2$  and gamma fractions. These changes were proportional to  
the radiation dose administered. Orig. art. has: 1 figure and 1 table. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 012

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Horn, Béla, dr.).

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Magy.noorv.lap. 26 no.4:203-209 J1 '63.

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(CERVIX NEOPLASMS)	(RADIOTHERAPY)	(STAINS AND STAINING)
(BIOPSY)	(ALKALINE PHOSPHATASE)	(GLYCOGEN)
(MUCOPOLYSACCHARIDES)	(RNA)	(DNA) (ADENOCARCINOMA)

DOMOTORI, Jeno, dr.; CSOMOR, Sandor, dr.; PAAL Margit, dr.; SZINYAI,  
Miklos, dr.

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the pathology of pregnancy. Orv. hetil. 105 no.19:828-830  
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Magyar Fizikai Folyoirat  
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Distr: 483d 27  
 Purification of hydrogen by diffusion through palladium.  
 E. Csongor. Magyar Tudományos Akad. Mat. és Fiz.  
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 closed at one end, and enclosed in a glass tube. This thin-  
 walled tube was heated by a wire spiral, with a current of 1-4  
 amp. The speed of diffusion of the purified H is a function  
 of temp. E. Rona

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HUNGARY/Electronics - Electrical Discharges in Gases and  
Gas Discharge Apparatus.

H

Abs Jour : Ref Zhur Fizka, No 11, 1959, 25560

Author : Csongor, Eva

Inst : Kiserleti Fiz: Intezet, Debrecen, Hungary

Title : Study of Corona Discharge and Stabilization of Voltage  
by Means of a Stabilizing Tube with Corona Discharge.

Orig Pub : Magyar fiz. folyoirat., 1958, 6, No 4, 333-338

Abstract : Description of the operating principle, construction,  
and properties of tubes with corona discharge, used to  
stabilize voltage from 350 to 2,000 volts at current of  
1 -- 4 and 100 -- 300 microamperes. Graphs are given  
for the dependence of the current and stabilization vol-  
tage on the pressure, type of gas (Kr, Xe, H<sub>2</sub>, 60% Xe  
and 40% Kr, etc.) and the geometric dimensions of the

Card 1/2

HUNGARY/Electronics - Electrical Discharges in Gases and  
Gas Discharge Apparatus.

H

Abs Jour : Ref Zhur Fizika, No 11, 1959, 25560

electrodes. The tubes retain their stabilizing action  
for several thousand hours. The procedure for producing  
vacuum in tube and for filling them with gas is descri-  
bed.

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MATHE, Gyorgy, tudomanyos munkatars

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2. Kiserleti Fizikai Intezet, Debrecen (for Csongor).